

**PROCEDURES FOR THE VERIFICATION OF CRITICAL  
DIMENSIONS OF WASHING VESSELS  
AASHTO T 210**

**A. PURPOSE**

This method provides instruction for the verification of critical dimensions of washing vessels, lids, and gaskets used in durability test. The speed (cycles per minute) of the modified Tyler shaker is also verified.

**B. APPARATUS REQUIRED**

1. Calipers capable of measuring the inside diameter of the vessels and lids readable to 0.001 inch.
2. Calibrated tachometer.
3. Ruler capable of measuring the height of the vessel.

**C. PROCEDURE**

1. Measure and record the inside diameter of the vessels to the nearest 0.001 inch. Rotate vessel 90 degrees (1/4 turn) and measure and record the inside diameter again.
2. Repeat Step 1.
3. Measure the inside and outside diameter of the lid and record.
4. Measure and record the height of the vessel to the nearest 0.001 inch. Rotate vessel 90 degrees (1/4 turn) and measure and record the height again. (Measure from the inside bottom of the vessel to the top of the rim.)
5. To verify the speed (cycles per minute) of the modified Tyler Shaker, place a piece of reflective tape on the base of the vessel holder. Place the vessel with water and sample inside and lid attached and locked in the vessel holder. Secure the vessel to the vessel holder. Position tachometer so the light hits the tape. Start shaker and allow to run for five (5) minutes. Observe and record RPM. Obtain the RPMs two more times and record. Obtain the average of the three tests and record as the RPMs of the shaker.

**D. TOLERANCE**

Critical dimensions shall meet the requirements specified in AASHTO Method T 210. The equipment is considered to be out of tolerance if any of the measurements do not meet specifications.

**Note:** All footnotes in the test method apply.

